Name: Date:

FOIL when $A \neq 1$ SLTN (version 120)

FOIL the expressions shown below:

1.
$$(-4x+2)(-5x-7)$$

$$(-4)(-5)x^{2} + (-4)(-7)x + (2)(-5)x + (2)(-7)$$
$$(20)x^{2} + (28)x + (-10)x + (-14)$$
$$20x^{2} + 18x - 14$$

2.
$$(-8x-9)(-9x+8)$$

$$(-8)(-9)x^{2} + (-8)(8)x + (-9)(-9)x + (-9)(8)$$
$$(72)x^{2} + (-64)x + (81)x + (-72)$$
$$72x^{2} + 17x - 72$$

3.
$$(-7x+4)(5x-9)$$

$$(-7)(5)x^{2} + (-7)(-9)x + (4)(5)x + (4)(-9)$$
$$(-35)x^{2} + (63)x + (20)x + (-36)$$
$$-35x^{2} + 83x - 36$$

4.
$$(-6x+6)(-7x-3)$$

$$(-6)(-7)x^{2} + (-6)(-3)x + (6)(-7)x + (6)(-3)$$
$$(42)x^{2} + (18)x + (-42)x + (-18)$$
$$42x^{2} - 24x - 18$$

5.
$$(-4x+5)(5x-8)$$

$$(-4)(5)x^{2} + (-4)(-8)x + (5)(5)x + (5)(-8)$$
$$(-20)x^{2} + (32)x + (25)x + (-40)$$
$$-20x^{2} + 57x - 40$$

FOIL the expressions shown below:

6.
$$(4x+4)(3x+6)$$

$$(4)(3)x^{2} + (4)(6)x + (4)(3)x + (4)(6)$$
$$(12)x^{2} + (24)x + (12)x + (24)$$
$$12x^{2} + 36x + 24$$

7.
$$(9x-9)(3x+4)$$

$$(9)(3)x^{2} + (9)(4)x + (-9)(3)x + (-9)(4)$$
$$(27)x^{2} + (36)x + (-27)x + (-36)$$
$$27x^{2} + 9x - 36$$

8.
$$(4x-3)(-5x+7)$$

$$(4)(-5)x^{2} + (4)(7)x + (-3)(-5)x + (-3)(7)$$
$$(-20)x^{2} + (28)x + (15)x + (-21)$$
$$-20x^{2} + 43x - 21$$

9.
$$(-3x+8)(-4x-9)$$

$$(-3)(-4)x^{2} + (-3)(-9)x + (8)(-4)x + (8)(-9)$$
$$(12)x^{2} + (27)x + (-32)x + (-72)$$
$$12x^{2} - 5x - 72$$

10.
$$(8x-2)(5x+7)$$

$$(8)(5)x^{2} + (8)(7)x + (-2)(5)x + (-2)(7)$$
$$(40)x^{2} + (56)x + (-10)x + (-14)$$
$$40x^{2} + 46x - 14$$